FORM PTO-1449

U. S DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

| ATTY. DOCKET NO. | SERIAL NO. | | | | | |
|---|------------|--|--|--|--|--|
| U 015756-4 | 10/533,733 | | | | | |
| APF | PLICANT | | | | | |
| U 015756-4 10/533,733 APPLICANT Masatomi SATO | | | | | | |
| FILING DATE | GROUP | | | | | |
| | T | | | | | |

2006 W

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

| יי פוחוז היי | ` | * * | ⊢ | | | | |
|----------------------|--|--------------------------|-------------------|-----------------------|-------------|----------------|----------|
| , 0000 m | 9 | | | May 4, 2005 | | 3754 | |
| ADEMIS | | U.S. PA | ATENT DOC | JMENTS | | | |
| EXAMINER INITIALS | REFERENCE DESIGNATION | DOCUMENT NUMBER | DATE | | NAME | FILING DA | |
| AA | AA | | | | | | |
| | AB | | | | | | |
| | AC | | | . ' | | | |
| | AD | | | | | | |
| | AE | | | | | | |
| | AF | | | · | | | |
| | AG | | | | | | |
| | АН | | | | | | |
| | Al | | | | | | |
| | AJ | | | | | | |
| | AK | | | | | | |
| | | FOREIGN | PATENT DO | CUMENTS | | | |
| | | D0CUMENT NUMBER | DATE | co | OUNTRY | TRANSLA YES | NO |
| 3 # | AL | 0 559 445 | 09/199: | 3 | EP | | |
| | AM | | | | | | |
| <u> </u> | AN | | | | | | |
| <u></u> | AO | | | | | | |
| | AP | | | | | | |
| | ОТ | HER ART (Includir | ng Author, Tit | le, Date, Pertinent D | ates, Etc.) | | |
| | AQ | | | | | | |
| | AR | | | | | | |
| | AS | | | | | <u> </u> | |
| XAMINER | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | er/2 | | DATE CONSIDERI | ED Ula | 1/07 | |
| XAMINER: | | considered, whether or n | not citation is i | n conformance with | | | ation if |

| FORM PTO-1 | | | | | ATTY. DOCKET NO. | | SERIAL NO. | | |
|------------------------|--------------------------|---|---------------------------------|----------------------------|---------------------------------------|-------------|----------------------------|----------|--|
| PATENT A | | AND TRADEMARK OFFICE | | U 015756-4 | | 10/533,733 | | | |
| | | N DISCLOSURE | | APPLICANT | | | | | |
| STATEMENT BY APPLICANT | | | | | Masatom | i SATO e | t al. | | |
| | (Use several sh | eets if necessary) | | FII | LING DATE | | GROUP | | |
| | | | | M | lay 4, 2005 | • | 3754 | | |
| | | U.S. P | ATENT DO | CUMENT | S | | i | | |
| EXAMINER INITIALS | REFERENCE DESIGNATION | DOCUMENT NUMBER | DAT | E | NAME | | FILING DATE IF APPROPRIATE | | |
| | AA | | | | | | | | |
| | AB | | | | ··· · · · · · · · · · · · · · · · · · | | | | |
| | AC | | | | | | | | |
| | AD | | | | 13 2 | | | | |
| | AE | | - | | | | | | |
| | AF | | | | | | | | |
| | AG | | | | | | | | |
| | АН | | | | | | | | |
| | AI | | | | | | | _ | |
| | Ą | | | | | | | | |
| | AK | | | | | | | | |
| | | FOREIGN | N PATENT [| OCUME | NTS | | | | |
| | | D0CUMENT | | | | _ | TRANSLA | TION | |
| | | NUMBER | DAT | E | COUNTRY | , | YES | . NO | |
| AP | AL | 11-280958 | 10/19 | 99 | JР | | | x | |
| A | AM | 5-271430 | 10/19 | 93 | JP | | | х | |
| 秀 | AN | 5-247478 | 09/19 | 93 | ЛР | | | х | |
| | AO | | | | | | | | |
| | AP | | <u> </u> | | | | | <u></u> | |
| - | ОТ | HER ART (Includi | ng Author, T | itle, Date, | Pertinent Dates, Etc. |) | · | | |
| TH | AQ | Patent Abstracts of Ja | pan of 11-28 | 0958 dated | d October 15, 1999 | | | | |
| J | AR | Patent Abstracts of Ja | pan of 5-271 | 430 dated | October 19, 1993 | | | | |
| JA | AS | Patent Abstracts of Ja | pan of 5-247 | 478 dated | September 24, 1993 | | | | |
| EXAMINER | James Ho | rk | | DATE | CONSIDERED / | 1/2/10/ | | | |
| EXAMINER: | Initial if citation | considered, whether or note and not considered. | not citation is Include copy | s in confor of this for | mance with MPEP 60 | 09; Draw li | ne through cita | ation if | |

| FORM PTO- | | ARTMENT OF COMMERCE AND TRADEMARK OFFICE | | ATTY. DOCKET NO. | | SERIAL NO. | | | |
|--|--------------------------|---|-----------------|------------------|-----------------------|-------------|----------------|----------|--|
| | PATENT | | | U 015756-4 | | | 10/533733 | | |
| OIPE INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | | | APPLICANT | | | | | |
| MAY 2 9 2007 | | BY APPLICANT | | | Masat | omi SAT | 0 | | |
| 9. | udUse several sh | eets if necessary) | | FI | LING DATE | | GROUP | | |
| A PARAMETER | 5 | | | N | May 4, 2005 | | | | |
| | | U.S. P | ATENT DO | CUMENT | rs | | | | |
| EXAMINER INITIALS | REFERENCE DESIGNATION | DOCUMENT NUMBER | DAT | E | NAME | | FILING D | | |
| | AA | | | | | | | | |
| | AB | | | | | | | | |
| | AC | | | • | | , | | | |
| _ | AD | | | | | | | | |
| | AE | | | | | | | | |
| | AF | | | | | | | | |
| | AG | | | | | | | | |
| | АН | | | | | | | | |
| | Al | | | | | | | | |
| | AJ | | | | | | | | |
| | AK | | | | | ! | | | |
| | | FOREIGN | N PATENT C | OCUME | NTS | | | | |
| | | D0CUMENT | | | | | TRANSLA | TION | |
| | | NUMBER | DAT | E | COUNTRY | <i>?</i> | YES | NO | |
| I) | AL | 2002-228066 | 08/20 | 02 | JP | | | х | |
| W. | АМ | 05-271430 | 10/19 | 93 | JP | | | х | |
| | AN | | | | | | | | |
| | AO | | | | | | | | |
| | AP | | | | | | | | |
| | ОТ | HER ART (Includi | ng Author, T | itle, Date | Pertinent Dates, Etc. | .) | | | |
| Z# | AR | Patent Abstracts of Jap | pan of JP 200 | 2-228066 | dated August 12, 20 | 02 | | | |
| # # # # # # # # # # # # # # # # # # # | AS | Patent Abstracts of Jap | oan of JP 05- | 271430 d | ated October 19, 199 | 3 | | | |
| | AT | | | | | | | | |
| EXAMINER | Jame Hole | 1 | | DATE | CONSIDERED 11 | 128107 |) | | |
| EXAMINER: | Initial if citation | considered, whether or r | not citation is | in confo | rmance with MPEP 6 | 09; Draw li | ne through cit | ation if | |

| | | ARTMENT OF COMMERCE | | ATTY. DOCKET NO. | | SERIAL NO. | | |
|----------------------|-----------------------------|--------------------------|---------------------------------|------------------|--------------------------|------------|-----------------|----------|
| | PATENT AND TRADEMARK OFFICE | | U 015756-4 | | | 10/533,733 | | |
| | INFORMATION DISCLOSURE | | | | APPL | JICANT | | |
| OIBE | (1 | BY APPLICANT | | , | Masato | mi SATO |) | |
| OCT 1 1 2007 | (Use several sh | eets if necessary) | | F | LING DATE | | GROUP | |
| 1 1 200/ | <i>(</i> 44 | | | ı | May 4, 2005 | | 3754 | |
| & TANDEMARK OF | 7 | U.S. P | PATENT DO | CUMEN' | TS | | | |
| EXAMINER INITIALS | REFERENCE DESIGNATION | DOCUMENT NUMBER | DAT | E. | NAME | | FILING DA | |
| J) | AA | 6,446,673 | 09/2002 | | Iio, et al. | | | |
| | AB | | | | | | | |
| | AC | | | | | | | |
| | AD | | | | | | | |
| | AE | | | | | | | |
| | AF | | | | | | | |
| | AG | | | | | | | |
| | AH | | | | | | | |
| | Al | Ç | | | | | | |
| | AJ | | | | | | | |
| | AK | | | | | | | |
| | | FOREIG | N PATENT [| OCUMI | ENTS | | | |
| | | D0CUMENT | | | | | TRANSLA | ATION |
| | | NUMBER | DAT | E | COUNTRY | | YES | NO |
| | AL | , , , | | | | | | |
| | AM | | | | | | , | |
| | AN | | | | | | | |
| | AO | | | | | | | |
| | AP | | | | | | | |
| | ОТІ | HER ART (Includi | ing Author, T | itle, Date | , Pertinent Dates, Etc.) | | | |
| | AR | | | | | | | |
| | A _, S | | | | | | | |
| | AT | | | | | | | |
| EXAMINER | Janes Ho | 1 | | DATE | CONSIDERED /// | 71/07 | | |
| EXAMINER/ | Initial if citation | considered, whether or a | not citation is Include copy | s in confo | rmance with MPEP 60 | 9; Draw li | ne through cite | ation if |

V 0 6 2006 ...

FORM PTO-1449

U. S DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

| ATTY. DOCKET NO. | SERIAL NO. | | | | |
|------------------|------------|--|--|--|--|
| U 015756-4 | 10/533,733 | | | | |
| APPL | ICANT | | | | |
| Masator | mi SATO | | | | |
| FILING DATE | GROUP | | | | |
| May 4, 2005 | 3754 | | | | |

U.S. PATENT DOCUMENTS FILING DATE IF DOCUMENT EXAMINER REFERENCE **APPROPRIATE** NUMBER DATE NAME INITIALS DESIGNATION AAAB AC AD ΑE ΑF AG AH ΑI ΑJ ΑK FOREIGN PATENT DOCUMENTS **TRANSLATION DOCUMENT** COUNTRY DATE NUMBER YES NO WZ. 09/1993 0 559 445 AL AM AN ΑO AP (Including Author, Title, Date, Pertinent Dates, Etc.) OTHER ART ΑQ AR AS 11/21/07 DATE CONSIDERED **EXAMINER** Igitial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if EXAMINER: not in conformance and not considered. Include copy of this form with next communication to applicant.

| FORM PTO-1 | | J. S DEPARTMENT OF COMMERCE | | ATTY. DOCKET NO. | | SERIAL NO. | | | |
|----------------------|--------------------------|-----------------------------|----------------|------------------|------------------------|--------------|----------------|----------|--|
| PATENT | | AND TRADEMARK OFFICE | | U 015756-4 | | 10/533,733 | | | |
| | | N DISCLOSURE | • | APPLICANT | | | | | |
| | STATEMENT | BY APPLICANT | | | Masatom | i SATO et | al. | | |
| | (Use several sh | eets if necessary) | | FI | LING DATE | | GROUP | | |
| | | | ä . | N | 1ay 4, 2005 | | 3754 | | |
| | | U.S. P | ATENT DO | CUMENT | 'S | | | | |
| EXAMINER INITIALS | REFERENCE DESIGNATION | DOCUMENT NUMBER | DAT | E | NAME | | FILING DA | | |
| | AA | · | | | | | | | |
| | AB | | | | | | | | |
| | AC | | | | | | | | |
| | AD | | | | | | | | |
| | AE | | | | | | <u></u> | | |
| | AF | | | | | | | | |
| | AG | · | | | | | | | |
| | АН | | | | | | | | |
| | AI | | | | | | | | |
| | ĹA | · | | | | | | | |
| | AK | | | | | | | | |
| | | FOREIGN | N PATENT I | OOCUME | ENTS | | | | |
| | | D0CUMENT | | | COI BITTO | , | TRANSLA | TION | |
| | | NUMBER | DA1 | C | COUNTRY | 1 | YES | . NO | |
| SA | AL | 11-280958 | 10/19 | 99 | л | | | х | |
| AC. | AM | 5-271430 | 10/19 | 93 | JP | | | х | |
| 3 | AN | 5-247478 | 09/19 | 93 | л | | | х | |
| | AO | | | ** | | | · | | |
| | AP | | | | | | | | |
| | ОТ | HER ART (Includi | ing Author, 1 | itle, Date | , Pertinent Dates, Etc | .) | | | |
| TH | AQ | Patent Abstracts of Ja | pan of 11-28 | 0958 date | ed October 15, 1999 | | | | |
| JH. | AR | Patent Abstracts of Ja | pan of 5-271 | 430 dated | l October 19, 1993 | | | | |
| A | AS | Patent Abstracts of Ja | pan of 5-247 | 478 dated | | | | | |
| EXAMINER | James He | rk | | DATE | CONSIDERED / | 11/21/07 | | | |
| EXAMINER: | Initial if citation | considered, whether or | not citation i | s in confo | ormance with MPEP 6 | 609; Draw li | ne through cit | ation if | |

| FORM PTO-1 | | ARTMENT OF COMMERCE | | ATTY. DOCKET NO. | | SERIAL NO. | | | |
|-----------------------------|--------------------------|---|-----------------|----------------------------|-----------------------|--------------|----------------|----------|--|
| PATENT AND TRADEMARK OF | | | OFFICE | U 015756-4 10/533733 | | | | | |
| OIPE INFORMATION DISCLOSURE | | | | APPLICANT | | | | | |
| MAY 2 9 2007 | STATEMENT | BY APPLICANT | | | Masat | omi SATO |) | | |
| 1 | udUse several sh | eets if necessary) | | FII | LING DATE | | GROUP | | |
| A CHEMINA | \$ / | | | N | 1ay 4, 2005 | | | | |
| | | U.S. P | ATENT DO | CUMENT | S | | | | |
| EXAMINER INITIALS | REFERENCE DESIGNATION | DOCUMENT NUMBER | DAT | E | NAME | | FILING DA | | |
| | AA | · | | | | | | | |
| , | AB | | | | | | | | |
| | AC | | | | | | | | |
| | AD | | | | | | | | |
| | AE | | | | | | | | |
| | AF | | | | | | | | |
| | AG | | | | | | | | |
| | АН | | | | | | | | |
| | Ai | | | | | | | | |
| | AJ | | | | | | | | |
| | AK | | | | | | • | - | |
| | | FOREIGN | N PATENT I | OCUME | NTS | | | | |
| | | D0CUMENT | | | | | TRANSLA | ATION | |
| | | NUMBER | DAT | Ë | COUNTRY | / | YES | NO | |
| D# | AL | 2002-228066 | 08/20 | 02 | JP | | | x | |
| 24 | AM | 05-271430 | 10/19 | 93 | JP | | | х | |
| | AN | | | | | | | | |
| | AO | | | | | | | | |
| | AP | | | | | | | | |
| | ОТ | HER ART (Includi | ng Author, T | itle, Date, | Pertinent Dates, Etc. | .) | | | |
| S # | AR | Patent Abstracts of Ja | pan of JP 200 |)2-228066 | dated August 12, 20 | 02 | | | |
| I | AS | Patent Abstracts of Ja | pan of JP 05- | 271430 da | ated October 19, 199 | 3 | | | |
| | AT | | · · | | | | | | |
| EXAMINER | James Hole | | | DATE | CONSIDERED 11 | 121107 | | | |
| EXAMINER: | Initial if citation | considered, whether or note and not considered. | not citation is | s in confor of this for | rmance with MPEP 6 | 09; Draw lin | ne through cit | ation if | |

| Sheet | _1_ | of_ | 1 |
|-------|-----|-----|---|

| | | ARTMENT OF COMMERCE | | ATTY. DOCKET NO. | | SERIAL NO. | | | |
|-----------------------------|--------------------------|---|--------------------------------|--------------------------|--------------------------------------|-----------------------------|-------------------------------|----------|--|
| PATENT AND TRADEMARK OFFICE | | | U 015756-4 | | | 10/533,733 | | | |
| | INFORMATION DISCLOSURE | | | APPLICANT | | | | | |
| QIBE | 1 | BY APPLICANT | | | Masat | omi SATO |) | | |
| OCT 1 1 2007 | (Use several sho | eets if necessary) | | FI | LING DATE | | GROUP | | |
| 1 1 200/ | (אַ | | _ | N | May 4, 2005 | | 3754 | | |
| PAOSMAR! OF | 7 | U.S. P | ATENT DO | CUMENT | rs | | | | |
| EXAMINER INITIALS | REFERENCE DESIGNATION | DOCUMENT NUMBER | DAT | E | NAME | | FILING DATE IF APPROPRIATE | | |
| J | AA | 6,446,673 | 09/2002 | | Iio, et al. | | | | |
| | AB | | | | | | | | |
| | AC | | | | | | | | |
| | AD | | | | | | | | |
| | AE | | | | | | | | |
| | AF | | | | | | | | |
| | AG | | | | | | | | |
| | АН | | | | | | | | |
| | Al | | | | | | | | |
| | AJ | | | | | | | | |
| | AK | | | | | | | | |
| | | FOREIGI | N PATENT I | OOCUME | ENTS | | | | |
| | | D0CUMENT | | | | | TRANSLATION | | |
| | | NUMBER | DAT | TE | COUNTR | Y | YES | NO | |
| | AL | | | | | | | | |
| | AM | | I | | | | | | |
| | AN | | | | | | | | |
| | AO | | | | | | | | |
| | AP | | | | | | | | |
| | ОТІ | HER ART (Includ | ing Author, 1 | Title, Date | , Pertinent Dates, Etc | :.) | | | |
| | | | | | | | | | |
| | AR | : | | | | | | | |
| | AS | | | | , | | | | |
| | AT | | | | | | | | |
| EXAMINER | Janes Ho | / | | DATE | considered // | 61/07 | | | |
| EXAMINER: | Initial if citation | considered, whether or ice and not considered. | not citation i Include copy | s in confo of this fo | rmance with MPEP orm with next commu | 509; Draw li nication to | ine through cit applicant. | ation if | |